user manual

DIGITAL superpro 640™



We've got the tools, you bring the imagination.

Important Notice



IXLA Limited and its licensors retain all ownership rights to the IXLA computer software and documentation. Use of IXLA software is governed by the license agreement accompanying your original media.

Your right to copy IXLA software and this publication is limited by copyright law and your end user license agreement. Making copies, adaptations or compilation works (except for archival purposes or as an essential step in the utilization of the software in conjunction with the equipment), without prior written authorization of IXLA Limited, is prohibited by law and constitutes a punishable violation of the law.

IXLA Limited provides this publication "as is" without warranty of any kind, either express or implied, including but not limited to the implied warranties or conditions of merchantability or fitness for a particular purpose. In no event shall IXLA Limited be liable for any loss of profits, loss of business, loss of use of data, interruption of business, or for any indirect special, incidental or consequential damages of any kind, even if IXLA Limited has been advised of such damages arising from any defect or error in this publication or in the IXLA software.

IXLA Limited may revise this publication from time to time without notice.

Some states or jurisdictions do not allow disclaimer of express or implied warranties in certain transactions; therefore, this statement may not apply to you.

© 2000 IXLA Limited. All rights reserved.

01-30080

Table of Contents



1 Getting Started **2**
Introduction 2
Digital SuperPro 640 features 3
Typical uses for your Digital SuperPro 640 camera 4
2 The Camera **5**
Overview of your Digital SuperPro 640 Camera 5
Loading batteries 7
Turning the camera on and off 7
LCD character display 8
3 Taking photos **9**
Camera memory 9
Focus 10
Flash 10
Self Timer 11
Power Saver 11
4 Transferring photos to the computer **12**
5 Camera maintenance and safety **14**
Tips for camera maintenance and safety 14
Cleaning the Digital SuperPro 640 14
6 Tips and troubleshooting **15**
Monitor adjustment 15
Printing 15
Troubleshooting 16
Error Messages 19
7 Getting Help **20**
8 Camera Specifications **21**
9 Warranty Information **23**
Index **25**

1 Getting Started



Introduction

Congratulations on purchasing the **Digital SuperPro 640** camera. With the **Digital SuperPro 640** camera you can take your photos and see the results within minutes. There is no need for film and no need to get your photos developed and printed at service bureaus.

The **Digital SuperPro 640** is easy to use – just point the camera and click the shutter, like a conventional camera. Then import your photos to your computer and use the IXLA software to edit, print and more.

Here are a few examples of what you can do with your **Digital SuperPro 640** camera:

- Take photos and view them on your PC.
- Take photos and print them out on your home printer.
- Take photos and e-mail them to family and friends.
- Take photos and organize them in electronic photo albums or slide shows.
- Take photos and create a Web site with them.
- Take photos and place them in your letters and documents.
- Take photos and enhance and manipulate them on your computer.
- Take photos and order prints and photo gifts over the Internet.

Digital SuperPro 640 features

- Built in flash
- Self timer
- Fixed focus from 3 feet to infinity
- LCD character display
- 640 x 480 pixel resolution
- Stores 30 photos
- Serial and USB connector to your computer

System requirements

- Pentium® processor or equivalent
- Microsoft® Windows® 95, Windows® 98, Windows NT® 4.0 (SP3+) or Windows® 2000.
- 16MB RAM (32 MB or higher recommended)
- CD-ROM drive
- Mouse
- 256 color or higher graphics card (16 bit is highly recommended)
- Internet access required for on-line components
- Windows compatible printer (optional)
- Serial or USB port
- USB requires Microsoft® Windows® 98 or Windows® 2000.

Typical uses for your Digital SuperPro 640 camera

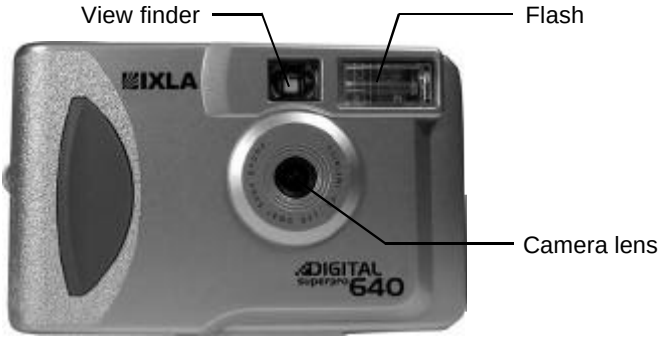
Here is a typical scenario of what you might do with your **Digital SuperPro 640** camera:

1 Load your batteries.	Load 4 AAA batteries. See page 7.
2 Turn on your camera.	Push the **Power** button. See page 7.
3 Set the flash settings.	Push the **Flash** button to toggle between settings. See page 10.
4 Take a photo.	Push the **Shutter** button. See page 9.
5 Connect your camera to your computer.	You can use a serial or USB connection. See page 13.
6 Transfer your photo to the computer.	Use the software to download your photos to the computer. See page 12.
7 Work with your photo on your computer.	Print your photo on your home printer, or send it to others by e-mail. Use it in a document, edit it, use it in a Web site, place it in an electronic photo album and much more.

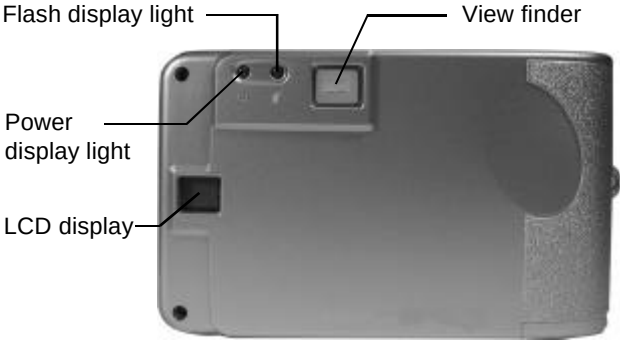
2 The Camera

Overview of your Digital SuperPro 640 Camera

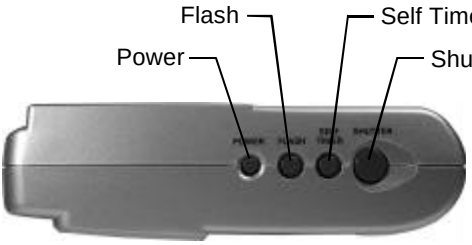
Camera front



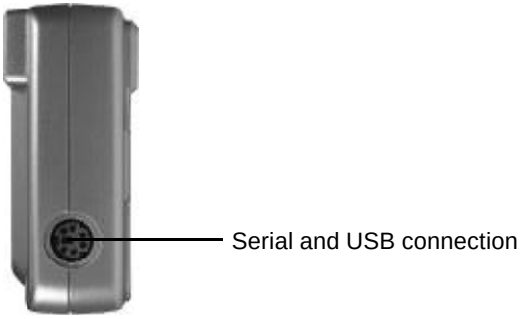
Camera back



Camera top



Camera side



Bottom of camera



Loading batteries

Digital SuperPro 640 uses 4 standard AAA batteries.

To load the batteries

1 Locate the battery cover on the bottom of the camera.

2 Press the cover down and push it sideways, in the direction of the arrow.

3 Flip the cover open.

4 Insert the batteries with the positive terminals toward the + signs, and the negative terminals toward the – signs.

5 Flip the cover closed.

Note	Remove the batteries if you will not be using the **Digital SuperPro 640** for an extended period of time. This prevents corrosion or battery leaks.

Turning the camera on and off

Turn the camera on and off using the **Power** button on the top of the camera.

To turn on the camera



1 Click the **Power** button.

2 Hold it down for a moment.

3 Check that the camera is on by looking for the green **Power display light** on the back of the camera.

To turn off the camera

The **Power** button is used for turning the camera both on and off. When the camera is on, pressing the **Power** button will turn it off.

Note	After the camera is switched off, the flash display light may stay lit for up to a minute. It will turn itself off as the flash gradually discharges.

LCD character display



The **Digital SuperPro 640** comes equipped with a Liquid Crystal Display (**LCD**) that displays important information. The **LCD** display window is located on the back of the camera on the left side. It displays information about:

- The number of photos that you have taken with the camera. After you have taken the first photo, **01** appears in the **LCD** display window. As you take more photos the number changes to **02**, **03**, and so on. When the memory is full, **FL** is displayed.
- The flash mode. When you click the flash button to toggle between modes, the current mode is displayed in the **LCD** window.
- The battery condition. When the battery power is low, **bL** is displayed.
- The light condition. The **LCD** displays **LL** when there is not enough light.
- System reset. **rS** is displayed when an unexpected error occurs.

Display	Meaning
FL	Memory full
YF	Flash always on
nF	no Flash
AF	Auto-Flash
FE	Flash memory error
rS	System Reset
LL	Low light condition
bL	Battery power low

Note If you see **b1** or **b2** in the **LCD**, it means that you have entered the camera's diagnostic mode. Turn the power off and on again to exit this mode.

3 Taking photos



Taking photos with the **Digital SuperPro 640** is easy and fun.

To take a photo

1 Make sure that the camera is turned on.

2 Position the subject in the **View finder**.

3 To ensure accurate focus, make sure that the subject is at least three feet (one meter) away.

4 Set the **Flash mode** to on, off or automatic. For more information, see page 10.

5 Gently press the **Shutter button** and keep the camera still for a couple of seconds.

6 When the image has been captured, the camera beeps and the number displayed in the **LCD** is updated.

Camera memory

The camera has room for between 24 and 30 photos. The **Digital SuperPro 640** delete function erases all the photos in the camera's memory. You do not have the option to delete single photos. When the **Digital SuperPro 640**'s memory is full, you will need to erase the existing photos in order to capture new ones.

Indications that the memory is full

When the memory is full:

- You hear repeated short high tones when you press the shutter.
- **FL** appears in the LCD.

To delete photos from the camera's memory

1 Press the **Flash** and **Self Timer** button simultaneously and hold for 3 seconds.

2 After 3 seconds the LCD display shows two dashes (**- -**).
The dashes indicate that the camera's memory has been cleared.

3 Release the **Flash** and **Self Timer** button.
The LCD displays **00** indicating that the photo counter has been reset.

Focus

The minimum focal length of the camera is three feet (one meter). Make sure your subject is at least three feet away before taking your photo.

Flash

The **Digital SuperPro 640** has three flash modes:

- Flash **On**–the flash operates every time you take a photo.
- Flash **Off–**the flash does not function.
- Flash **Auto**–the camera automatically senses whether the flash is needed.

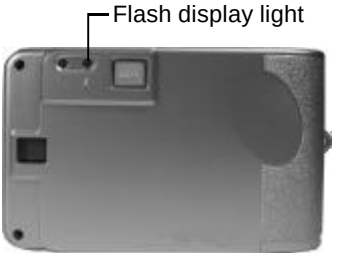
Click the **Flash button** to toggle between these three modes.

The current **Flash mode** is displayed in the LCD window.

Display	Meaning
YF	Flash on
nF	Flash off
AF	Flash Auto

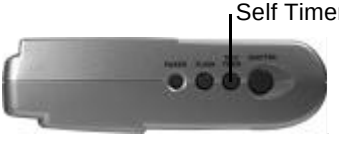
Recharging the flash

The flash may need time to recharge between photos. When the flash is ready, the **Flash display** light on the back of the camera glows orange. If the **Flash display** is not lit, wait a few moments for the flash to recharge.



Self Timer

The **Digital SuperPro 640** is equipped with a 10 second **Self Timer**. It creates a ten second delay between the time you press the **Self Timer** button and the time the photo is taken. This allows you to take a photo with yourself included.



To use the Self Timer

1 Hold down the **Self Timer** button.

2 The **Self Timer** indicator will begin to flash and beep.

3 The beeps become faster over a period of ten seconds.

4 When the sound stops, the shutter captures the image.

Power Saver

The **Digital SuperPro 640** has an automatic power cut-off. If the camera has not been used for twenty seconds, the power will automatically switch off. To turn the power back on, press the **Power** button.

4 Transferring photos to the computer

There is no film in your **Digital SuperPro 640** camera. You access the photos by connecting the camera to your PC and transferring the photos to the PC. This is also known as **importing** or **downloading** the photos. Your **Digital SuperPro 640** camera comes with IXLA software to help you import photos to your computer. See the software documentation for more information about importing.

The **Digital SuperPro 640** camera comes with one connection point on its right hand side – it's both a serial and USB connection point.

You can connect the **Digital SuperPro 640** camera to your computer using either the serial or the USB connection, both adapters are on the other side of the cable.



To connect the camera to the PC



1 Plug one end of the cable into the camera; it's the end with only one adapter.

2 On the other end of the cable, choose either the serial connection adapter or the USB adapter and plug it into your computer; the adapter with 9 holes is the serial connection, the other adapter is the USB adapter; see photos below.



3 Turn on the camera.

You are now ready to import photos from your camera to your computer. Refer to the section on importing photos in the software documentation.

Important USB Information

To use the USB cable you **must** have:

- A USB port on your PC. For more information, check with your PC supplier.
- USB support in your operating system. Window 98 includes USB support, and Windows NT up to version 4 does not support USB.
- A USB driver installed for your camera. The USB driver is automatically installed when you install the software supplied with your **Digital SuperPro 640** camera.

5 Camera maintenance and safety



Tips for camera maintenance and safety

- To avoid damaging your **Digital SuperPro 640**, do not expose it to extremes of heat or cold. Avoid leaving it in the sun for prolonged periods.
- Never wrap up the **Digital SuperPro 640** while it is turned on.
- To avoid the risk of electric shock, never expose the **Digital SuperPro 640** to rain or moisture.
- Remove the batteries from your camera if you will not be using it for a long period of time.
- To avoid the risk of electric shock, never disassemble the **Digital SuperPro 640**. Refer all servicing to qualified personnel.

Cleaning the Digital SuperPro 640

Clean the outside of the **Digital SuperPro 640** by wiping it with a clean, dry cloth.

Cleaning the lens and LCD

1. Blow gently on the lens or LCD to remove any surface dust and dirt.
2. Breathe lightly on the surface to moisten it.
3. Use a soft, lint-free cloth to wipe it gently dry.
4. Never use cleaning solutions on the lens unless they are specifically designed for camera lenses.

6 Tips and troubleshooting



Monitor adjustment

To make sure that your photos look their best you may need to adjust your monitor to 16-bit color or higher.

To adjust the monitor

1. Click the Windows **Start** button.
2. Click **Settings** and then **Control Panel** from the pop-up menus.
3. Double-click the **Display** icon.
4. Click the **Settings** tab.
5. The **Color Palette** group should be showing **High Color (16-bit)** or **True Color (24 bit)**. If it is lower than this setting (e.g. 256 color), then choose **High Color** or **True Color** from the list box.
6. Click **OK**.
7. You may need to restart your computer after making this change.

Printing

There are a number of ways to improve the quality of your prints.

- Check your printer software settings. Make sure that your printer is set to print at high resolution.
- Make sure that you are printing on good quality paper. Check with your printer vendor for advice about the best paper for your printer.
- Make sure that your ink cartridges are fresh.
- The ideal printing size for photos taken with the **Digital SuperPro 640** is 6 x 4 inches (w x h). Enlarging photos for printing may result in a loss of quality. For best results, always print photos at the recommended size.

Troubleshooting

If you have a problem operating your camera, read this section first. If you still cannot find the solution, contact our support desk at **techsup@ixla.com**.

The camera has no power.

Possible Cause	Solution
The camera is turned off.	Hold down the **Power** button until the **Power light** displays.
The batteries are weak or dead.	Replace the batteries.
The batteries are not properly inserted.	Remove the batteries and insert them according to the instructions on page 7.
The Power saver has switched the power off.	Press the **Power** button again.

The orange light is on but the shutter button does not work.

Possible Cause	Solution
The camera is off. The orange light indicates that the Flash is still discharging.	Hold down the **Power** button until the green **Power light** displays.

The power is on but the shutter button does not work.

Possible Cause	Solution
The camera is still capturing a photo.	Wait until the tone sounds, indicating that the photo has been captured.
The memory is full.	Clear the memory according to the instructions on page 12.

The flash does not work.

Possible Cause	Solution
The flash is turned off.	Toggle the flash button to the Flash On mode.
The flash is still recharging	Wait for the flash to recharge. When it is ready, the Flash display light glows orange.

The photo is blurred.

Possible Cause	Solution
Either you or the subject moved while you were taking the photo.	Try again.
The lens is dirty.	Clean the lens and try again.
The subject was too close for the fixed focus.	Stand at least 3 feet (one meter) from the subject.

The photo has jagged edges.

Possible Cause	Solution
The monitor is set at low resolution.	Adjust your monitor display settings according to the instructions on page 15.
The photo has been enlarged for printing and the print quality is poor.	Reduce the size of the photo to 6 x 4 inches (w x h).

You cannot connect the serial cable to the computer's COM port.

Possible Cause	Solution
Your computer's COM port outlet and the cable attachment plug are of different sizes.	See your computer parts supplier for an adaptor.

You cannot import photos from your camera.

Possible Cause	Solution
The camera is turned off.	Hold down the Power button until you can see the Power light.
The serial cable is not connected properly to the camera or to the computer.	Connect the serial cable according to the instructions on page 12.
The communication settings may be set to the incorrect COM port.	Adjust the communication settings. Refer to the software documentation.
There is a conflict with another serial device.	Refer to the documentation that came with your computer and operating system.
Your computer does not support 57.6 k or higher baud rates.	Reduce the baud rate to 19.2 k and try again.
You connected to the camera within a different application, and the COM port is now "busy".	Go back to the other application and disconnect from your camera. Then try again.

Error Messages

If an error occurs with your camera, the LCD will display an error message.

Display	Error	What to do
FL	The memory is full.	Delete the photos in the camera's memory according to the instructions on page 9.
rS	System reset. An unexpected error has occurred.	The camera will reset automatically.
bL	The battery power is low.	Replace the batteries.
LL	The light is too low.	Turn on the flash.
FE	Flash error.	This can occur when the battery power is low. Turn the camera off and check your batteries.

7 Getting Help

If you need help with your camera, refer to the Troubleshooting section on page 16 of this manual. If you still cannot find the solution, go to the free support section on our Web site at **www.ixla.com/support**. Most support issues are answered in the Frequently Asked Questions (FAQ) section. After checking the FAQs, and you need more help, please email our technical support department using the form provided at the bottom of the Search page.

Telephone support may be obtained in the USA. Telephone 1-925-288-2725. You may be charged for the telephone support.

IXLA Worldwide Offices

IXLA USA 17 Jansen St. Danbury, CT 06810 USA	***IXLA Australia Pty. Ltd.*** 303 Burwood Highway Burwood East Victoria 3151 Australia
IXLA Japan Seido-mae Bldg 4F 1-2-5, Yushima, Bunkyo-ku, Tokyo Japan	

View our Web site for the latest information about ixla and related products.

http://www.ixla.com

8 Camera Specifications

Parameter	Specifications
Sensor Type	CMOS
Resolution	VGA 640x480
Lens Aperture	F4.0
Lens Focal Length (mm)	6 mm
Depth of Field	3 feet to infinity
Electronic Shutter Speed	Auto
Strobe Flash Type/Mode	Xenon
View Finder	Yes
Exposure	Auto
White Balance	Auto
Output File Format	Bitmap
Memory (Type/Size/Other)	2 Meg Flash Memory
Image Capacity (Resolution/# images)	20 images - 36 images
Strobe flash mode selection	On / Off or Auto
Self timer (Seconds)	10 seconds
Image erase (Y/N)	Yes
Shutter tone (Y/N)	Yes
Serial Communication (USB/Other)	Serial and USB
Processing Time (Picture to Picture)	4 second
Power Source	4 AA Batteries
Software Interface	ixla DCI
LCD status display - #pictures, flash mode, etc.....	Yes
View angles (H) and (V)	56 H 41 V 66 D
Support system suspend/resume function ACPI S1+S3	Yes

Power Requirements:

Battery:	Yes
-Life	W/0 Flash 200 imgs:
-Type/Number	AAA
-Low battery indicator	Yes
Agency Certifications (List)	FCC and CE
EMC Certification IEC801.2-4, other	Yes
Microsoft WHQL Certification	Yes

9 Warranty Information



Warranty Time Period

IXLA warrants the **Digital SuperPro 640** to be free from malfunctions and defects in both materials and workmanship for 90 days from the date of purchase.

Warranty Repair Coverage

This warranty will be honored within the geographical location that the product was purchased.

If the equipment does not function properly during the warranty period due to defects in either materials or workmanship, IXLA will, at its option, either repair or replace the equipment without charge, subject to the conditions and limitations stated herein. Such repair service will include all labor, as well as any necessary adjustments and/or replacement parts.

If replacement parts are used in making repairs, these parts may be remanufactured or may contain remanufactured materials. If it is necessary to replace the entire system, it may be replaced with a remanufactured system.

IXLA will also provide telephone assistance during the warranty period.

Limitations

Warranty service will not be provided without dated proof of purchase. Please return the registration card within 30 days of purchase.

This warranty becomes null and void if you fail to pack your **Digital SuperPro 640** camera in a manner consistent with the original product packaging and damage occurs during product shipment.

This warranty does not cover: circumstances beyond IXLA's control; service or parts to correct problems resulting form the use of attachments; accessories or alterations not marketed by IXLA; service required as the result of unauthorized modifications or service; misuse; abuse; failure to follow IXLA's operating, maintenance or repackaging instructions; or failure to use items supplied by IXLA (such as adaptors and cables).

IXLA makes no other warranties, express, implied, or of merchantability or fitness for a particular purpose for this equipment or software.

Repair or replacement without charge are IXLA's only obligation under this warranty. IXLA will not be responsible for any special, consequential or incidental damages resulting form the purchase, use or improper functioning of this equipment regardless of the cause. Such damages for which IXLA will not be responsible include, but are not limited to, loss of revenue or profit, downtime costs, loss of use of the equipment, cost of any substitute equipment, facilities or services, or claims of customers for such damages.

Depending on your geographical location, some limitations and exclusions may not apply.

Application Support

For application specific support, contact your reseller, systems integrator, software manufacturer or dealer.

How to obtain service

When returning a camera for repair, pack the camera in the original packaging materials. A problem report should also be enclosed with the equipment. If the original packaging has been discarded or is not available, packaging will be at the owner's expense.

Unless a specific IXLA warranty is communicated to the purchaser in writing by IXLA, no other warranty or liability exists beyond the information contained above, even through defect, damage or loss may be caused by negligence or other act.

Index

A

Adjusting the monitor. 15

B

Batteries 7
 loading 7
Blurred photos 17

C

Camera
 connect to computer 13
 features 3
 maintenance 14
 memory 9
 overview 5
 specifications 21
 system requirements 3
Cleaning the camera 14
Cleaning the lens. 14
Color
 monitor adjustment 15
Computer
 connect to 13

D

Download photos. 12

E

Erase photos 9
Erasing the memory 10
Error messages 19

F

Features
 of the Digitial SuperPro 640 . . 3
Film 9
Flash 10
Focus. 10
Full memory 9

H

Help 20

I

Import photos 12

L

LCD display 8
Liquid Crystal Display 8
Loading batteries 7

M

Maintenance
camera 14
Memory 9
Messages
error 19
Monitor adjustment. 15

O

Overview 5

P

Photo
deleting 9
print. 15
taking 9
transfer 12
Power 7
Power button 7
Power requirements 22
Power saver 11
Print 15
Problems
connecting the serial cable . . 18
importing photos 18
operating the camera. 16
operating the flash 17
troubleshooting 16

R

Recharging flash 11

S

Safety
camera 14
Self Timer 11
Serial connection. 13
Service
How to obtain, ... 24
Specifications 21
System requirements 3

T

Technical support 20
Transferring photos 12
Troubleshooting 16
Typical uses
for the Digital SuperPro 640 . . 4

U

USB connection 13
USB driver 13

W

Warranty information 23